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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,141	08/10/2006	Sumit Bhaduri	KHAI-101 us	5850
<sup>23410</sup> <b>Vista IP</b> Law G	7590 05/13/200 roup LLP	9	EXAMINER	
2040 MAIN ST	REET, 9TH FLOOR	LU, C CAIXIA		
IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			05/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Dispay.   Di		Application No.	Applicant(s)			
Calxie Lu	Office Action Comments	10/589,141	BHADURI ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Beginning to the many be available under the provision of 3 CFR1.13(s), in no event, fivered, may areply elimely little direction of the communication of t	Office Action Summary	Examiner	Art Unit			
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1) Responsive to communication(s) filed on	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul>					
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)	Status					
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1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)	<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						

Application/Control Number: 10/589,141 Page 2

Art Unit: 1796

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

## Claim 1

- (i) In line 4, the term "and" should not be deleted since the magnesium chloride supported titanium chloride and an internal electron donor are the procatalyst components. It is noted that the organoaluminum cocatalyst and the selectivity control agent are not a part of the procatalyst.
- (ii) In line 5, the word "organoaluminium" should be replace with --organoaluminum--.

The similar rejections are also made over claim 7.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murata et al. (US 4,737,481).

Application/Control Number: 10/589,141

Art Unit: 1796

The instant claims are directed to a catalyst composition comprising a procatalyst comprising magnesium chloride supported titanium chloride and an internal electron donor, an organoaluminum based cocatalyst, and a selectivity control agent of tartrates.

Page 3

Murata disclosed a process for producing a catalyst ingredient by contacting (A) a magnesium hydrocarbyloxide and (B) a silicon compound such as trichlorosilane to provide a solid product, contacting the solid with (C) a titanium hide and then (D) an electron donor, and such a catalyst component is further mixed with trialkylaluminum to conduct olefin polymerization (col. 2, lines 7-16, col. 4, line 48, and Example 1 and application Example 1). It is understood that in Murata's Example 1 magnesium diethoxide and trichlorosilane react with each other to provide a magnesium chloride support and siloxane, wherein the siloxane functions as an internal electron donor. It is also noted that Murata discloses component (D) to be selected from various alkyl tartrates (col. 4, line 48).

Thus, it would have been obvious to a skilled artisan at the time the invention was made to employ Murata's teaching to prepare an olefin polymerization catalyst by using alkyl tartrate as the electron donor since such is within the scope of Murata's disclosure and in the absence of any showing criticality and unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached on 9:00 a.m. to 5:30 p.m..

Application/Control Number: 10/589,141 Page 4

Art Unit: 1796

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Caixia Lu/ Primary Examiner Art Unit 1796